

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

October 16, 2015

MARK PEACOCK DUKE ENERGY EDWARDSPORT IGCC 15424 E. STATE ROAD 358 Edwardsport, IN 47528

RE: Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Dear MARK PEACOCK:

Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt

kenneth.hunt@pacelabs.com

Project Manager

Enclosures

cc: Mr. Rhett Moody, Duke Energy (Edwardsport Generating Station)





Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway

Dublin, OH 43017 (614)486-5421 Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

CERTIFICATIONS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268 Illinois Certification #: 200074 Indiana Certification #: C-49-06 Kansas Certification #:E-10177 Kentucky UST Certification #: 0042 Kentucky WW Certification #:98019 Louisiana Certification #: 04076

Ohio VAP Certification #: CL-0065 Oklahoma Certification #: 2014-148 Texas Certification #: T104704355-15-9 West Virginia Certification #: 330 Wisconsin Certification #: 999788130 USDA Soil Permit #: P330-10-00128



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SAMPLE SUMMARY

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50129599001	55:Filtered Water 20151006-032	Water	10/06/15 09:45	10/09/15 09:27
50129599002	16:GW Influent 20151006-033	Water	10/06/15 09:55	10/09/15 09:27
50129599003	16:GW In Process 20151006-034	Water	10/06/15 09:50	10/09/15 09:27
50129599004	55:Filtered Water 20151008-015	Water	10/08/15 08:20	10/09/15 09:27
50129599005	16:GW Influent 20151008-016	Water	10/08/15 08:10	10/09/15 09:27
50129599006	16:GW IN Process 20151008-017	Water	10/08/15 08:15	10/09/15 09:27



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SAMPLE ANALYTE COUNT

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50129599001	55:Filtered Water 20151006-032	EPA 200.8	DMT	2
50129599002	16:GW Influent 20151006-033	EPA 200.8	DMT	2
50129599003	16:GW In Process 20151006-034	EPA 200.8	DMT	2
50129599004	55:Filtered Water 20151008-015	EPA 200.8	DMT	2
50129599005	16:GW Influent 20151008-016	EPA 200.8	DMT	2
50129599006	16:GW IN Process 20151008-017	EPA 200.8	DMT	2



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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Date: 10/16/2015 08:54 AM

Sample: 55:Filtered Water Lab ID: 50129599001 Collected: 10/06/15 09:45 Received: 10/09/15 09:27 Matrix: Water 20151006-032 DF **Parameters** Results Units Report Limit Prepared CAS No. Qual Analyzed 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 ND 0.0010 10/13/15 09:00 10/14/15 08:22 7440-38-2 Arsenic mg/L Selenium ND mg/L 0.0010 10/13/15 09:00 10/14/15 08:22 7782-49-2



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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Date: 10/16/2015 08:54 AM

Sample: 16:GW Influent 20151006- Lab ID: 50129599002 Collected: 10/06/15 09:55 Received: 10/09/15 09:27 Matrix: Water

033	Lab ID. 301	29399002	Collected. 10/00/1	3 09.55	Neceived. 10	709/13 09.27 IV	iallix. VValei	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Meth	nod: EPA 20	0.8 Preparation Met	hod: EF	PA 200.8			
Arsenic Selenium	0.033 0.14	mg/L mg/L	0.0010 0.0010	1 1		10/14/15 08:27 10/14/15 08:27		



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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Date: 10/16/2015 08:54 AM

Sample: 16:GW In Process Lab ID: 50129599003 Collected: 10/06/15 09:50 Received: 10/09/15 09:27 Matrix: Water

20151006-034

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8

200.8 MET ICPMS Analytical Method. EPA 200.8 Preparation Method. EPA 200.

Arsenic ND mg/L 0.0010 1 10/13/15 09:00 10/14/15 08:33 7440-38-2 Selenium ND mg/L 0.0010 1 10/13/15 09:00 10/14/15 08:33 7782-49-2



10/13/15 09:00 10/14/15 08:38 7440-38-2

10/13/15 09:00 10/14/15 08:38 7782-49-2

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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Date: 10/16/2015 08:54 AM

Arsenic

Selenium

Sample: 55:Filtered Water Lab ID: 50129599004 Collected: 10/08/15 08:20 Received: 10/09/15 09:27 Matrix: Water 20151008-015 DF **Parameters** Results Units Report Limit Prepared CAS No. Analyzed Qual 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8

0.0010

0.0010

ND

ND

mg/L

mg/L



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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Date: 10/16/2015 08:54 AM

Sample: 16:GW Influent 20151008- Lab ID: 50129599005 Collected: 10/08/15 08:10 Received: 10/09/15 09:27 Matrix: Water

016 DF **Parameters** Results Units Report Limit Prepared CAS No. Qual Analyzed 200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 0.038 0.0010 10/13/15 09:00 10/14/15 08:43 7440-38-2 Arsenic mg/L Selenium 0.16 mg/L 0.0010 10/13/15 09:00 10/14/15 08:43 7782-49-2



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ANALYTICAL RESULTS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Date: 10/16/2015 08:54 AM

Sample: 16:GW IN Process Lab ID: 50129599006 Collected: 10/08/15 08:15 Received: 10/09/15 09:27 Matrix: Water

20151008-017

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8

Arsenic ND mg/L 0.0010 1 10/13/15 09:00 10/14/15 08:48 7440-38-2 Selenium 0.010 mg/L 0.0010 1 10/13/15 09:00 10/14/15 08:48 7782-49-2



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

QUALITY CONTROL DATA

Project: **Grey Water Treatment Profile**

Pace Project No.: 50129599

Arsenic

QC Batch: MPRP/18196 Analysis Method: EPA 200.8 QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET

Associated Lab Samples: 50129599001, 50129599002, 50129599003, 50129599004, 50129599005, 50129599006

METHOD BLANK: 1400018 Matrix: Water

Associated Lab Samples: 50129599001, 50129599002, 50129599003, 50129599004, 50129599005, 50129599006

Reporting Blank Parameter Limit Qualifiers Units Result Analyzed ND 0.0010 10/14/15 06:45 mg/L Selenium mg/L ND 0.0010 10/14/15 06:45

LABORATORY CONTROL SAMPLE: 1400019

_		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	mg/L	.04	0.036	89	85-115	
Selenium	mg/L	.04	0.036	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400021 1400020

		50129430001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Arsenic	mg/L	ND	.04	.04	0.036	0.036	89	90	70-130	1	20	
Selenium	mg/L	ND	.04	.04	0.036	0.036	89	89	70-130	0	20	

MATRIX SPIKE SAMPLE: 1400022

Date: 10/16/2015 08:54 AM

Parameter	Units	40122388002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic Selenium	mg/L mg/L	10.6 ug/L <1.0 ug/L	.04	0.045 0.035	86 86	70-130 70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



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QUALIFIERS

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 10/16/2015 08:54 AM



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Grey Water Treatment Profile

Pace Project No.: 50129599

Date: 10/16/2015 08:54 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50129599001	55:Filtered Water 20151006-032	EPA 200.8	MPRP/18196	EPA 200.8	ICPM/2148
50129599002	16:GW Influent 20151006-033	EPA 200.8	MPRP/18196	EPA 200.8	ICPM/2148
50129599003	16:GW In Process 20151006-034	EPA 200.8	MPRP/18196	EPA 200.8	ICPM/2148
50129599004	55:Filtered Water 20151008-015	EPA 200.8	MPRP/18196	EPA 200.8	ICPM/2148
50129599005	16:GW Influent 20151008-016	EPA 200.8	MPRP/18196	EPA 200.8	ICPM/2148
50129599006	16:GW IN Process 20151008-017	EPA 200.8	MPRP/18196	EPA 200.8	ICPM/2148

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical www.neelabs.com

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Sample Container Count

CLIENT Whe Energy - Eduardical Coo Page of TSCC

Project # 50149599

pH <2 pH >9 pH>12 DG9H AG1U WGFU AG0U R 4/6 BP2N BP2U BP2S BP3N BP3U BP3S AG3S AG1H BP3C BP1U SP5T AG2U Sample Line Item 5 7 12 0 က Ŋ တ 9 8

Container Code

	Container Codes						
DG9H	DG9H 40mL HCL amber voa vial	AGOU	AG0U 100mL unpreserved amber glass	BP1N	BP1N 1 liter HNO3 plastic	DG9P	DG9P 40ml TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	AG1H 1 liter HCL amber glass	BP1S	BP1S 1 liter H2SO4 plastic	DGGS	DG9S 40ml H2SO4 amberyial
WGFU	WGFU 4oz dear soil jar	AG1S	AG1S 1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	TeST	DG9T 40ml Na Thio amber vial
R	R terra core kit	AG1T	AG1T 1 liter Na Thiosulfate amber glass	BP1Z	BP1Z 1 liter NaOH. Zn. Ac	Degal	DG9U 40ml uppreserved amber vial
BP2N	BP2N 500mL HNO3 plastic	AG2N	AG2N 500mL HNO3 amber glass	BP2A	BP2A 500mL NaOH. Asc Acid plastic	SP5T	SP5T 120ml Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	AG2S 500mL H2SO4 amber glass	BP20	BP20 500mL NaOH plastic	URFU.	IGEU 407 unbreserved amber wide
BP2S	BP2S 500mL H2SO4 plastic	AG2U	AG2U 500mL unpreserved amber glass	BP2Z	BP2Z 500ml NaOH Zn Ac	=	Il Simma Can
BP3N	BP3N 250mL HNO3 plastic	AG3U	AG3U 250mL unpreserved amber glass	Ą	AF Air Filter	VG9H	VG9H 40ml HCI clear vial
BP3U	250mL unpreserved plastic	BG1H	BG1H 1 liter HCL clear glass	ВРЗС	BP3C 250mL NaOH plastic	Yeg.	VG9T 40ml Na Thio clear vial
BP3S	BP3S 250mL H2SO4 plastic	BG1S	BG1S 1 liter H2SO4 clear glass	BP3Z	BP3Z 250mL NaOH Zn Ac plastic	11657	VG911 40ml inpreserved clear vial
AG3S	AG3S 250mL H2SO4 glass amber	BG1T	BG1T 1 liter Na Thiosulfate clear glass	O	C Air Cassettes	VSG	VSG Headspace senta vial & HCI
AG1S	AG1S 1 liter H2SO4 amber glass	BG1U	BG1U 1 liter unpreserved glass	DG9B	lfate amber vial	WGFX	WGFX 402 wide jar w/hexape wine
BP1U	BP1U 1 liter unpreserved plastic	BP1A	BP1A 1 liter NaOH, Asc Acid plastic	DG9M		ZPLC	ZPLC Ziploc Bag
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